

0270

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/677,752

DATE: 10/12/2000
 TIME: 18:31:08

ENTERED

Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\10122000\I677752.raw

```

4 <110> APPLICANT: W. James Jackson
6 <120> TITLE OF INVENTION: Chlamydia sp PROTEIN, GENE SEQUENCE AND
7   USES THEREOF
9 <130> FILE REFERENCE: 7969-087
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/677,752
C--> 11 <141> CURRENT FILING DATE: 2000-10-03
11 <160> NUMBER OF SEQ ID NOS: 71
13 <170> SOFTWARE: FastSEQ for Windows Version 3.0
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 2898
17 <212> TYPE: DNA
18 <213> ORGANISM: Chlamydia sp
20 <220> FEATURE:
21 <221> NAME/KEY: CDS
22 <222> LOCATION: (1)...(2895)
24 <400> SEQUENCE: 1
25 atg aaa aaa gcg ttt ttc ttt ttc ctt att gga aac tcc cta tca gga      48
26 Met Lys Lys Ala Phe Phe Phe Phe Leu Ile Gly Asn Ser Leu Ser Gly
27 1 5 10 15
29 cta gct aga gag gtt cct tct aga atc ttt ctt atg ccc aac tca gtt      96
30 Leu Ala Arg Glu Val Pro Ser Arg Ile Phe Leu Met Pro Asn Ser Val
31 20 25 30
33 cca gat cct acg aaa gag tcg cta tca aat aaa att agt ttg aca gga      144
34 Pro Asp Pro Thr Lys Glu Ser Leu Ser Asn Lys Ile Ser Leu Thr Gly
35 35 40 45
37 gac act cac aat ctc act aac tgc tat ctc gat aac cta cgc tac ata      192
38 Asp Thr His Asn Leu Thr Asn Cys Tyr Leu Asp Asn Leu Arg Tyr Ile
39 50 55 60
41 ctg gct att cta caa aaa act ccc aat gaa gga gct gct gtc aca ata      240
42 Leu Ala Ile Leu Gln Lys Thr Pro Asn Glu Gly Ala Ala Val Thr Ile
43 65 70 75 80
45 aca gat tac cta agc ttt ttt gat aca caa aaa gaa ggt att tat ttt      288
46 Thr Asp Tyr Leu Ser Phe Phe Asp Thr Gln Lys Glu Gly Ile Tyr Phe
47 85 90 95
49 gca aaa aat ctc acc cct gaa agt ggt ggt gcg att ggt tat gcg agt      336
50 Ala Lys Asn Leu Thr Pro Glu Ser Gly Gly Ala Ile Gly Tyr Ala Ser
51 100 105 110
53 ccc aat tct cct acc gtg gag att cgt gat aca ata ggt cct gta atc      384
54 Pro Asn Ser Pro Thr Val Glu Ile Arg Asp Thr Ile Gly Pro Val Ile
55 115 120 125
57 ttt gaa aat aat act tgt tgc aga cca ttt aca tcg agt aat cct aat      432
58 Phe Glu Asn Asn Thr Cys Cys Arg Pro Phe Thr Ser Ser Asn Pro Asn
59 130 135 140
61 gca gct gtt aat aaa ata aga gaa ggc gga gcc att cat gct caa aat      480
62 Ala Ala Val Asn Lys Ile Arg Glu Gly Gly Ala Ile His Ala Gln Asn
63 145 150 155 160
65 ctt tac ata aat cat aat cat gat gtg gtc gga ttt atg aag aac ttt      528

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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 66 | Leu | Tyr | Ile | Asn | His | Asn | His | Asp | Val | Val | Gly | Phe | Met | Lys | Asn | Phe | |
| 67 | | | | 165 | | | | | 170 | | | | | | 175 | | |
| 69 | tct | tat | gtc | cga | gga | gga | gcc | att | agt | acc | gct | aat | acc | ttt | gtt | gtg | 576 |
| 70 | Ser | Tyr | Val | Arg | Gly | Gly | Ala | Ile | Ser | Thr | Ala | Asn | Thr | Phe | Val | Val | |
| 71 | | | | 180 | | | | | 185 | | | | | 190 | | | |
| 73 | agc | gag | aat | cag | tct | tgt | ttt | ctc | ttt | atg | gac | aac | atc | tgt | att | caa | 624 |
| 74 | Ser | Glu | Asn | Gln | Ser | Cys | Phe | Leu | Phe | Met | Asp | Asn | Ile | Cys | Ile | Gln | |
| 75 | | | | 195 | | | | 200 | | | | | | 205 | | | |
| 77 | act | aat | aca | gca | gga | aaa | ggg | ggc | gct | atc | tat | gct | gga | acg | agc | aat | 672 |
| 78 | Thr | Asn | Thr | Ala | Gly | Lys | Gly | Gly | Ala | Ile | Tyr | Ala | Gly | Thr | Ser | Asn | |
| 79 | | | | 210 | | | | 215 | | | | | | 220 | | | |
| 81 | tct | ttt | gag | agt | aat | aac | tgc | gat | ctc | ttc | ttt | atc | aat | aac | gcc | tgt | 720 |
| 82 | Ser | Phe | Glu | Ser | Asn | Asn | Cys | Asp | Leu | Phe | Phe | Ile | Asn | Asn | Ala | Cys | |
| 83 | | | | 225 | | | 230 | | | | | | | 235 | | 240 | |
| 85 | tgt | gca | gga | gga | gcg | atc | ttc | tcc | cct | atc | tgt | tct | cta | aca | gga | aat | 768 |
| 86 | Cys | Ala | Gly | Gly | Ala | Ile | Phe | Ser | Pro | Ile | Cys | Ser | Leu | Thr | Gly | Asn | |
| 87 | | | | | 245 | | | | | 250 | | | | 255 | | | |
| 89 | cgt | ggg | aac | atc | gtt | ttc | tat | aac | aat | cgc | tgc | ttt | aaa | aat | gta | gaa | 816 |
| 90 | Arg | Gly | Asn | Ile | Val | Phe | Tyr | Asn | Asn | Arg | Cys | Phe | Lys | Asn | Val | Glu | |
| 91 | | | | 260 | | | | | 265 | | | | | 270 | | | |
| 93 | aca | gct | tct | tca | gaa | gct | tct | gat | gga | gga | gca | att | aaa | gta | act | act | 864 |
| 94 | Thr | Ala | Ser | Ser | Glu | Ala | Ser | Asp | Gly | Gly | Ala | Ile | Lys | Val | Thr | Thr | |
| 95 | | | | 275 | | | | 280 | | | | | | 285 | | | |
| 97 | cgc | cta | gat | gtt | aca | ggc | aat | cgt | ggg | agg | atc | ttt | ttt | agt | gac | aat | 912 |
| 98 | Arg | Leu | Asp | Val | Thr | Gly | Asn | Arg | Gly | Arg | Ile | Phe | Phe | Ser | Asp | Asn | |
| 99 | | | | 290 | | | | 295 | | | | | 300 | | | | |
| 101 | atc | aca | aaa | aat | tat | ggc | gga | gct | att | tac | gct | cct | gta | gtt | acc | cta | 960 |
| 102 | Ile | Thr | Lys | Asn | Tyr | Gly | Gly | Ala | Ile | Tyr | Ala | Pro | Val | Val | Thr | Leu | |
| 103 | | | | 305 | | | 310 | | | | | 315 | | | | 320 | |
| 105 | gtg | gat | aat | ggc | cct | acc | tac | ttt | ata | aac | aat | atc | gcc | aat | aat | aag | 1008 |
| 106 | Val | Asp | Asn | Gly | Pro | Thr | Tyr | Phe | Ile | Asn | Asn | Ile | Ala | Asn | Asn | Lys | |
| 107 | | | | | 325 | | | | | 330 | | | | | 335 | | |
| 109 | ggg | ggc | gct | atc | tat | ata | gac | gga | acc | agc | aac | tcc | aaa | att | tct | gcc | 1056 |
| 110 | Gly | Gly | Ala | Ile | Tyr | Ile | Asp | Gly | Thr | Ser | Asn | Ser | Lys | Ile | Ser | Ala | |
| 111 | | | | 340 | | | | | 345 | | | | | 350 | | | |
| 113 | gac | cgc | cat | gct | att | att | ttt | aat | gaa | aat | att | gtg | act | aat | gta | act | 1104 |
| 114 | Asp | Arg | His | Ala | Ile | Ile | Phe | Asn | Glu | Asn | Ile | Val | Thr | Asn | Val | Thr | |
| 115 | | | | 355 | | | | 360 | | | | | | 365 | | | |
| 117 | aat | gca | aat | ggg | acc | agt | acg | tca | gct | aat | cct | cct | aga | aga | aat | gca | 1152 |
| 118 | Asn | Ala | Asn | Gly | Thr | Ser | Thr | Ser | Ala | Asn | Pro | Pro | Arg | Arg | Asn | Ala | |
| 119 | | | | 370 | | | | 375 | | | | | 380 | | | | |
| 121 | ata | aca | gta | gca | agc | tcc | tct | ggg | gaa | att | cta | tta | gga | gca | ggg | agt | 1200 |
| 122 | Ile | Thr | Val | Ala | Ser | Ser | Ser | Gly | Glu | Ile | Leu | Leu | Gly | Ala | Gly | Ser | |
| 123 | | | | 385 | | | | 390 | | | | | 395 | | | 400 | |
| 125 | agc | caa | aat | tta | att | ttt | tat | gat | cct | att | gaa | gtt | agc | aat | gca | ggg | 1248 |
| 126 | Ser | Gln | Asn | Leu | Ile | Phe | Tyr | Asp | Pro | Ile | Glu | Val | Ser | Asn | Ala | Gly | |
| 127 | | | | | 405 | | | | | 410 | | | | | 415 | | |
| 129 | gtc | tct | gtg | tcc | ttc | aat | aag | gaa | gct | gat | caa | aca | ggc | tct | gta | gta | 1296 |
| 130 | Val | Ser | Val | Ser | Phe | Asn | Lys | Glu | Ala | Asp | Gln | Thr | Gly | Ser | Val | Val | |

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| | | |
|-----|---|------|
| 197 | cat cct ttc tgg gga att aca gga gga gga cta ggc atg atg gtt tac | 2112 |
| 198 | His Pro Phe Trp Gly Ile Thr Gly Gly Gly Leu Gly Met Met Val Tyr | |
| 199 | 690 695 700 | |
| 201 | caa gat cct cga gaa aat cat cct gga ttc cat atg cgc tct tcc gga | 2160 |
| 202 | Gln Asp Pro Arg Glu Asn His Pro Gly Phe His Met Arg Ser Ser Gly | |
| 203 | 705 710 715 720 | |
| 205 | tac tct gcg ggg atg ata gca ggg cag aca cac acc ttc tca ttg aaa | 2208 |
| 206 | Tyr Ser Ala Gly Met Ile Ala Gly Gln Thr His Thr Phe Ser Leu Lys | |
| 207 | 725 730 735 | |
| 209 | ttc agt cag acc tac acc aaa ctc aat gag cgt tac gca aaa aac aac | 2256 |
| 210 | Phe Ser Gln Thr Tyr Thr Lys Leu Asn Glu Arg Tyr Ala Lys Asn Asn | |
| 211 | 740 745 750 | |
| 213 | gta tct tct aaa aat tac tca tgc caa gga gaa atg ctc ttc tca ttg | 2304 |
| 214 | Val Ser Ser Lys Asn Tyr Ser Cys Gln Gly Glu Met Leu Phe Ser Leu | |
| 215 | 755 760 765 | |
| 217 | caa gaa ggt ttc ttg ctg act aaa tta gtt ggg ctt tac agc tat gga | 2352 |
| 218 | Gln Glu Gly Phe Leu Leu Thr Lys Leu Val Gly Leu Tyr Ser Tyr Gly | |
| 219 | 770 775 780 | |
| 221 | gac cat aac tgt cac cat ttc tat acc caa gga gaa aat cta aca tct | 2400 |
| 222 | Asp His Asn Cys His His Phe Tyr Thr Gln Gly Glu Asn Leu Thr Ser | |
| 223 | 785 790 795 800 | |
| 225 | caa ggg acg ttc cgt agt caa acg atg gga ggt gct gtt ttt ttt gat | 2448 |
| 226 | Gln Gly Thr Phe Arg Ser Gln Thr Met Gly Gly Ala Val Phe Phe Asp | |
| 227 | 805 810 815 | |
| 229 | ctc cct atg aaa ccc ttt gga tca acg cat ata ctg aca gct ccc ttt | 2496 |
| 230 | Leu Pro Met Lys Pro Phe Gly Ser Thr His Ile Leu Thr Ala Pro Phe | |
| 231 | 820 825 830 | |
| 233 | tta ggt gct ctt ggt att tat tct agc ctg tct cac ttt act gag gtg | 2544 |
| 234 | Leu Gly Ala Leu Gly Ile Tyr Ser Ser Leu Ser His Phe Thr Glu Val | |
| 235 | 835 840 845 | |
| 237 | gga gcc tat ccg cga agc ttt tct aca aag act cct ttg atc aat gtc | 2592 |
| 238 | Gly Ala Tyr Pro Arg Ser Phe Ser Thr Lys Thr Pro Leu Ile Asn Val | |
| 239 | 850 855 860 | |
| 241 | cta gtc cct att gga gtt aaa ggt agc ttt atg aat gct acc caa aga | 2640 |
| 242 | Leu Val Pro Ile Gly Val Lys Gly Ser Phe Met Asn Ala Thr Gln Arg | |
| 243 | 865 870 875 880 | |
| 245 | cct caa gcc tgg act gta gaa ttg gca tac caa ccc gtt ctg tat aga | 2688 |
| 246 | Pro Gln Ala Trp Thr Val Glu Leu Ala Tyr Gln Pro Val Leu Tyr Arg | |
| 247 | 885 890 895 | |
| 249 | caa gaa cca ggg atc gcg acc cag ctc cta gcc agt aag ggt att tgg | 2736 |
| 250 | Gln Glu Pro Gly Ile Ala Thr Gln Leu Leu Ala Ser Lys Gly Ile Trp | |
| 251 | 900 905 910 | |
| 253 | ttt ggt agt gga agc ccc tca tgc cgt cat gcc atg tcc tat aaa atc | 2784 |
| 254 | Phe Gly Ser Gly Ser Pro Ser Ser Arg His Ala Met Ser Tyr Lys Ile | |
| 255 | 915 920 925 | |
| 257 | tca cag caa aca caa cct ttg agt tgg tta act ctc cat ttc cag tat | 2832 |
| 258 | Ser Gln Gln Thr Gln Pro Leu Ser Trp Leu Thr Leu His Phe Gln Tyr | |
| 259 | 930 935 940 | |
| 261 | cat gga ttc tac tcc tct tca acc ttc tgt aat tat ctc aat ggg gaa | 2880 |

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date



Creation date: 11-24-2003
Indexing Officer: PDO1 - PHU DO
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Dossier: 09677752

Legal Date: 02-07-2001

| No. | Doccode | Number of pages |
|-----|---------|-----------------|
| 1 | IDS | 2 |
| 2 | FOR | 293 |

Total number of pages: 295

Remarks:

Order of re-scan issued on